

Comparisons of Job Characteristics

Focus Occupation: [Ship Engineers \(53-5031\)](#)

Associated Occupation: [Captains, Mates, and Pilots of Water Vessels \(53-5021\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

| | |
|----|--|
| << | Focus occupation element is much lower |
| < | Focus occupation element is lower |
| 0 | Focus occupation element is at a similar level |
| > | Focus occupation element is at a higher level |
| >> | Focus occupation element is at a much higher level |

Knowledge

Similarity of Focus Occupation to Associated Occupation: 57

Focus Occupation: Ship Engineers (53-5031)

Associated Occupation: Captains, Mates, and Pilots of Water Vessels (53-5021)

| Associated Occupation's Key Knowledge Elements | Average Rating, All Occupations | Associated Occupation's Rating | Focus Occupation's Rating | Evaluation of Focus Occupation |
|--|---------------------------------|--------------------------------|---------------------------|--|
| Transportation | 4.6 | 16.0 | 12.4 | << Extensive education and/or training may be required |
| Public Safety and Security | 6.9 | 13.4 | 15.3 | > Current knowledge level is likely sufficient |
| Geography | 3.9 | 12.5 | 6.6 | << Extensive education and/or training may be required |
| Telecommunications | 3.9 | 8.2 | 7.0 | < Expanded education and/or training may be required |

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 65

Focus Occupation: Ship Engineers (53-5031)

Associated Occupation: Captains, Mates, and Pilots of Water Vessels (53-5021)

| Associated Occupation's Key Skills Elements | Average Rating, All Occupations | Associated Occupation's Rating | Focus Occupation's Rating | Evaluation of Focus Occupation |
|---|---------------------------------|--------------------------------|---------------------------|---|
| Operation and Control | 5.4 | 14.0 | 10.3 | << Extensive development of skills in this area may be required |
| Operation Monitoring | 6.6 | 13.0 | 11.5 | < A higher skill level may be required |
| Monitoring | 9.9 | 12.1 | 11.0 | 0 Current skill level may be sufficient |
| Coordination | 9.1 | 11.4 | 8.8 | << Extensive development of skills in this area may be required |
| Management of Personnel Resources | 6.9 | 10.0 | 9.6 | 0 Current skill level may be sufficient |
| Troubleshooting | 4.5 | 7.9 | 11.6 | >> Skill level is likely more than sufficient |

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

| Abilities | | Similarity of Focus Occupation to Associated Occupation: 69 | | | |
|---|---------------------------------|---|---------------------------|--------------------------------|--|
| Focus Occupation: Ship Engineers (53-5031) Associated Occupation: Captains, Mates, and Pilots of Water Vessels (53-5021) | | | | | |
| Associated Occupation's Key Abilities Elements | Average Rating, All Occupations | Associated Occupation's Rating | Focus Occupation's Rating | Evaluation of Focus Occupation | |
| Far Vision | 7.8 | 15.9 | 7.9 | << | Extensive improvement in abilities may be required |
| Spatial Orientation | 2.7 | 13.4 | 3.2 | << | Extensive improvement in abilities may be required |
| Depth Perception | 5.3 | 12.2 | 6.6 | << | Extensive improvement in abilities may be required |
| Selective Attention | 8.7 | 11.9 | 11.0 | 0 | Current ability level may be sufficient |
| Glare Sensitivity | 2.6 | 11.6 | 3.5 | << | Extensive improvement in abilities may be required |
| Time Sharing | 6.6 | 10.6 | 8.1 | << | Extensive improvement in abilities may be required |
| Peripheral Vision | 2.2 | 8.3 | 2.9 | << | Extensive improvement in abilities may be required |
| Night Vision | 2.1 | 7.8 | 3.1 | << | Extensive improvement in abilities may be required |
| Sound Localization | 2.2 | 6.0 | 4.0 | << | Extensive improvement in abilities may be required |

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

| Activities that Both Occupations Have in Common | | Similarity of Focus Occupation to Associated Occupation: 73 |
|---|-------------------------|---|
| Focus Occupation: Ship Engineers (53-5031) Associated Occupation: Captains, Mates, and Pilots of Water Vessels (53-5021) | | |
| Work Activities | Exclusivity of Activity | |
| Direct and coordinate activities of workers or staff | 3 | |
| Inspect machinery or equipment to determine adjustments or repairs needed | 42 | |
| Maintain records, reports, or files | 5 | |
| Monitor worker performance | 57 | |
| Oversee work progress to verify safety or conformance to standards | 49 | |
| Perform safety inspections in transportation setting | 62 | |
| Stand watch on vessel | 92 | |
| Understand technical operating, service or repair manuals | 6 | |
| Use two-way radio or mobile phone | 42 | |

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: n/a

Focus Occupation: Ship Engineers (53-5031)

Associated Occupation: Captains, Mates, and Pilots of Water Vessels (53-5021)

| Tools and Technologies | Exclusivity |
|------------------------|-------------|
|------------------------|-------------|

| | |
|---|--|
| Tools and technology data is unavailable for one or both occupations. | |
|---|--|

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.